Reveal, J.L. and B. Ertter. 2014. Overlooked sectional names of North American Rosaceae trib. Potentilleae. Phytoneuron 2014-26: 1–4. Published 11 February 2014. ISSN 2153 733X

OVERLOOKED SECTIONAL NAMES OF NORTH AMERICAN ROSACEAE TRIB. POTENTILLEAE

JAMES L. REVEAL
L.H. Bailey Hortorium
Department of Plant Biology
Cornell University, Ithaca, New York 14853-4301
e-mail: jlr326@cornell.edu

BARBARA ERTTER
University and Jepson Herbaria
1001 Valley Life Sciences Building #2465
University of California
Berkeley, California 94720-2465
e-mail: ertter@berkeley.edu

ABSTRACT

A series of overlooked infrageneric sectional names in Rosaceae trib. Potentilleae inadvertently but effective published by O.A. Stevens in 1959 are reported. Additional section names of potential nomenclatural significance were proposed by him in *Rosa*, *Rubus*, and *Spiraea* (Rosaceae) as well as *Grossularia*, *Heuchera*, and *Ribes* (Saxifragaceae), but these are not considered here.

Because of our decision to organize species of *Horkelia, Ivesia*, and *Horkelia* (Rosaceae Juss. trib. Potentilleae Sweet) within sections for a forthcoming volume of *Flora of North America*, we attempted to account for all of the infrageneric names applied to the members of the tribe in this region. Sections that had been established for North American *Potentilla* were mostly based on a subset of Per Axel Rydberg's unranked "groups," the majority of which had been validly published by Rydberg in the *Bulletin of the Torrey Botanical Club* (Rydberg 1896b, 1896c, 1896d, 1896e, 1897), in his 1898 doctoral dissertation, *A Monograph of North American Potentilleae*, or his 1908 treatment of the rose family in *North American Flora*. Many of these "groups" were in turn derived from various infrageneric units (some invalid) introduced by Johann Georg Christian Lehmann (1856) in his monumental classic *Revisionem Potentillarum*, which Rydberg (1896a: 244; 1898: 2) considered to be the basis for his own revision. Many of Rydberg's unranked names were assigned sectional rank by subsequent authors, notably Nelson (1909), Juzepczuk (1941), and Johnston (1985), sometimes unintentionally and often with redundancy.

As a result of our efforts, we located one previously overlooked place where some of Rydberg's names had been validated as sections (Ertter 2008; Nelson 1909) and made several such validations ourselves (Ertter & Reveal 2007). We failed to notice, however, that Orin Alva Stevens (1885–1979), in a 1959 index to volume 22 of *North American Flora*, had inadvertently validated, as sections, all the infrageneric names proposed by Rydberg in this work. In the majority of instances, Stevens's publication merely changes the authorship and bibliographic reference of sectional names we were already using. In a few cases, however, Stevens's earlier sectional names replaced later ones we had been using up to the galley stage of the *Flora of North America* manuscript.

Our purposes here are twofold. One is to report on the unlooked Stevens names in the trib. Potentilleae. The second is to alert workers that Stevens also validated a series of additional infrageneric names in Rosaceae (*Rosa*, *Rubus*, and *Spiraea*) and Saxifragaceae (*Grossularia*, *Heuchera*, and *Ribes*). We have made no attempt to ascertain the potential changes in names and/or authorships of sectional names in those genera.

Validation of the unranked Rydberg names was accomplished in a twofold process. First, Stevens assigned a rank to an otherwise effectively and validly published unranked name. Second, because this was an index to the unranked names used in 1908 that may or may not have been the first place that Rydberg validated the name, Stevens's error in the citation of the basionym is correctable under Art. 41.8(a) of the *Code* (McNeill et al. 2012) inasmuch as Rydberg, in 1908, effectively and validly published the names again.

In the following list, we report the newly discovered sectional names in *Horkelia* Cham. & Schltdl., *Ivesia* Torr. & A. Gray, and *Potentilla* L.

Horkelia Cham. & Schltdl. sect. *Californicae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 7. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Californicae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 120, 121. 25 Nov 1898 via N. Amer. Fl. 22(4): 269, 271. 20 Nov 1908 [Art. 41.8(a)]. – T.: *H. californica* Cham. & Schltdl.

Horkelia Cham. & Schltdl. sect. *Capitatae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 7. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Capitatae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 120, 122. 25 Nov 1898 via N. Amer. Fl. 22(4): 269, 272. 20 Nov 1908 [Art. 41.8(a)]. – T.: *H. capitata* Lindl.

Horkelia Cham. & Schltdl. sect. *Cuneatae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 7. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Cuneatae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 120, 121. 25 Nov 1898 via N. Amer. Fl. 22(4): 269, 276. 20 Nov 1908 [Art. 41.8(a)]. – T.: *H. cuneata* Lindl.

Horkelia Cham. & Schltdl. sect. *Hirsutae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 7. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Hirsutae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 120, 123. 25 Nov 1898 via N. Amer. Fl. 22(4): 269, 276. 20 Nov 1908 [Art. 41.8(a)]. – T.: *H. hirsuta* Lindl.

Horkelia Cham. & Schltdl. sect. *Sericatae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 7. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Sericatae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 120, 123. 25 Nov 1898 via N. Amer. Fl. 22(4): 270, 278. 20 Nov 1908 [Art. 41.8(a)]. – T.: *H. sericata* S. Watson

Horkelia Cham. & Schltdl. sect. *Tenuilobae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 7. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Tenuilobae* Rydb. in N. Amer. Fl. 22(4): 269, 272. 20 Nov 1908 [Art. 41.8(a)]. – T.: *H. tenuiloba* Jordan

Horkelia Cham. & Schltdl. sect. *Tridentatae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 7. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Tridentatae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 120, 122. 25 Nov 1898 via N. Amer. Fl. 22(4): 270, 279. 20 Nov 1908 [Art. 41.8(a)]. – T.: *H. tridentata* Torr.

Ivesia Torr. & A. Gray sect. *Eremicae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 8. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Eremicae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 120, 124. 25 Nov 1898 via N. Amer. Fl. 22(4): 283, 284. 20 Nov 1908 [Art. 41.8(a)]. – T.: *I. eremica* (Coville) Rydb.

Ivesia Torr. & A. Gray sect. *Lycopodioides* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 8. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Lycopodioides* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 120, 124. 25 Nov 1898 via N. Amer. Fl. 22(4): 283, 286. 20 Nov 1908 [Art. 41.8(a)]. – T.: *I. lycopodioides* A. Gray

Ivesia Torr. & A. Gray sect. *Setosae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 8. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Setosae* Rydb. in N. Amer. Fl. 22(4): 283, 290. 20 Nov 1908 [Art. 41.8(a)]. – T.: *I. setosa* (S. Watson) Rydb. [NOTE: This name has equal priority with *Potentilla* L. sect. *Saxosae* (Rydb.) O. Stevens, typified by *P. saxosa* Lemmon ex Greene, and while this has been transferred, as *Ivesia* sect. *Saxosae* (Rydb.) Ertter & Reveal, to that genus, the sect. *Setosae* has priority at the rank of section.]

Ivesia Torr. & A. Gray sect. *Unguiculatae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 8. 23 Sep 1959, based on *Horkelia* [infragen. unranked] *Unguiculatae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 120, 124. 25 Nov 1898 via N. Amer. Fl. 22(4): 283, 284. 20 Nov 1908 [Art. 41.8(a)]. – T.: *I. unquiculata* A. Gray

Potentilla L. sect. *Arenicolae* (Rydb.) O. Stevens in *N. Amer. Fl.* 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Arenicolae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 31. 25 Nov 1898 via N. Amer. Fl. 22(4): 293, 294, 308. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. newberryi* A. Gray

Potentilla L. sect. *Biflorae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Biflorae* Rydb. in Bull. Torrey Bot. Club 24: 13. 28 Jan 1897 via N. Amer. Fl. 22(4): 294, 335. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. biflora* Willd. ex D.K.F. Schltdl.

Potentilla L. sect. *Brevifoliae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Brevifolia* Rydb. in Bull. Torrey Bot. Club 23: 306. 20 Aug 1896, via N. Amer. Fl. 22(4): 294, 336. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. brevifolia* Nutt. ex Torr. & A. Gray

Potentilla L. sect. *Candicantes* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Candicantes* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 32. 25 Nov 1898 via N. Amer. Fl. 22(4): 294, 339. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. candicans* Humb. & Bonpl. ex D.K.F. Schltdl.

Potentilla L. sect. *Candidae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Candidae* Rydb. in N. Amer. Fl. 22(4): 294, 315. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. candida* Rydb.

Potentilla L. sect. *Concinnae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Concinnae* Rydb. in Bull. Torrey Bot. Club 23: 431. 25 Nov 1896 via N. Amer. Fl. 22(4): 294, 328. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. concinna* Richardson

Potentilla L. sect. *Frigida* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Frigida* Rydb. in Bull. Torrey Bot. Club 23: 301, 304. 20 Aug 1896, via N. Amer. Fl. 22(4): 294, 333. 20 Nov 1908 [Art. 41.8(a)]. – LT.: *P. flabellifolia* Hook., to be designated.

Potentilla L. sect. *Heptaphyllae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, as "Heptophyllae", based on *Potentilla* [infragen. unranked] *Heptaphyllae* Rydb. in N. Amer. Fl. 22(4): 294, 310. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. leptophylla* Rydb.

Potentilla L. sect. *Heterosepalae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Heterosepalae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 21, 23. 25 Nov 1898 via N. Amer. Fl. 22(4): 293, 303. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. heterosepala* Fritsch

Potentilla L. sect. *Horridae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Horridae* Rydb. in N. Amer. Fl. 22(4): 294, 322. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. heterosepala* Fritsch

Potentilla L. sect. *Longipedunculatae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Longipedunculatae* Rydb. in N. Amer. Fl. 22(4): 293, 320. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. longipedunculata* Rydb.

Potentilla L. sect. *Nuttallianae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Nuttallianae* Rydb. in N. Amer. Fl. 22(4): 293, 294, 310. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. nuttallii* Lehm.

Potentilla L. sect. *Obovatifoliae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Obovatifoliae* Rydb. in N. Amer. Fl. 22(4): 294, 321. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. obovatifolia* Rydb.

Potentilla L. sect. *Pectinisectae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, as "Pectenisectae", based on *Potentilla* [infragen. unranked] *Pectinisectae* Rydb. in N. Amer. Fl. 22(4): 294, 316. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. nuttallii* Lehm.

Potentilla L. sect. *Permolles* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Permolles* Rydb. in N. Amer. Fl. 22(4): 294, 315. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. permollis* Rydb.

Potentilla L. sect. *Rubrae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Rubrae* Rydb. in N. Amer. Fl. 22(4): 293, 323. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. rubra* Willd. ex D.K.F. Schltdl.

Potentilla L. sect. *Saxosae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Horkelia* Cham. & Schltd. [infragen. unranked] *Saxosae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 121, 125. 25 Nov 1898 via *Potentilla* L. [infragen. unranked] *Saxosae* Rydb., N. Amer. Fl. 22(4): 294, 335. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. saxosa* Lemmon ex Greene

Potentilla L. sect. *Subcoriaceae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 23 Sep 1959, based on *Potentilla* [infragen. unranked] *Subcoriaceae* Rydb. in N. Amer. Fl. 22(4): 294, 320. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. subcoriacea* Rydb.

Potentilla L. sect. *Subviscosae* (Rydb.) O. Stevens in N. Amer. Fl. 22(7): 11. 3 Sep 1959, based on *Potentilla* [infragen. unranked] *Subviscosae* Rydb. in Mem. Dept. Bot. Columbia Coll. 2: 24. 25 Nov 1898 via N. Amer. Fl. 22(4): 294, 327. 20 Nov 1908 [Art. 41.8(a)]. – T.: *P. subviscosa* Greene

ACKNOWLEDGEMENTS

We wish to thanks Kanchi Gandhi (GH), Werner Greuter (B), John McNeill (E), the late Jiři Soják (PR), and John Wiersema (USDA) for their help in this matter.

LITERATURE CITED

Ertter, B. 2008. Nomenclatural Notes in North American *Potentilla* (Rosaceae). J. Bot. Res. Inst. Texas 2: 201–205.

Ertter, B. and J.L. Reveal. 2007. New sections, combinations, and varieties in Rosaceae, Potentilleae. Novon 17: 315–325.

Johnston, B.C. 1985. Studies in *Potentilla*. I. Key to North American sections. Phytologia 57: 292–302.

Juzepczuk, S.V. 1941. Rosaceae–Rosoideae, Prunoideae. Flora URSS 10: 1–508.

Lehmann, JG. C. 1856. Revisionem Potentillarum. Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. 23 (suppl.): 1–230, 64 tab.

McNeil, K., F.R. Barrie, W.R. Buck, V. Demoulin, W. Greuter, D.L. Hawksworth, P.S. Herendeen, S. Knapp, K. Marhold, J. Prado, W.F. Prud'homme van Reine, G.F. Smith, J.H. Wiersema, and N.J. Turland. 2012. International Code of Nomenclature for Algae, Fungi, and Plants (Melbourne Code). Regnum Vegetabile 154: 1–240. Koeltz Scientific Books, Königstein, Germany.

Nelson, A. 1909. *Potentilla*. Pp. 255–261, in J.M. Coulter and A. Nelson. New Manual of Botany of the Central Rocky Mountains. American Book Company, New York.

Rydberg, P.A. 1896a. Notes on *Potentilla*.–I. Bull. Torrey Bot. Club 23: 244–248.

Rydberg, P.A. 1896b. Notes on *Potentilla*.–II. Bull. Torrey Bot. Club 23: 259–265.

Rydberg, P.A. 1896c. Notes on *Potentilla*.–III. Bull. Torrey Bot. Club 23: 301–306.

Rydberg, P.A. 1896d. Notes on *Potentilla*.–IV. Bull. Torrey Bot. Club 23: 394–399.

Rydberg, P.A. 1896e. Notes on *Potentilla*.–V. Bull. Torrey Bot. Club 23: 429–435.

Rydberg, P.A. 1897. Notes on *Potentilla*.–VI. Bull. Torrey Bot. Club 24: 1–13.

Rydberg, P.A. 1898. A monograph of the North American Potentilleae. Mem. Dept. Bot. Columbia Coll. 2: 1–223.

Rydberg, P.A. 1908. Rosaceae. N. Amer. Fl. 22(3–4): 239–388.

Stevens, O.A. 1959. Index. N. Amer. Fl. 22(7): 1–22.